



Form PTO-1449

**U.S. Department of Commerce
Patent and Trademark Office**

Atty. Docket No.

64481/JPWAAJMMML

Serial No.

10/091,714

**INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)**

Applicants: Isabelle Mansuy and
Eric R. KandelFiling Date
March 5, 2002Group
1632

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	0 0 1 8 2 0 7	08/30/2001	Kandel et al. (Exhibit 1);			
Am2	5 5 6 7 7 2 4	10/22/1996	Kelleher et al. (Exhibit 2);	514	368	
Am2	5 7 2 0 9 3 6	02/24/1998	Wadsworth et al. (Exhibit 3);	424	9.1	
Am2	5 7 2 3 4 3 6	03/3/1998	Huang et al. (Exhibit 4);	514	2	
Am2	5 8 0 7 6 9 3	09/15/1998	Scott et al. (Exhibit 5);	435	7.21	
Am2	6 3 2 3 3 9 1	11/27/2001	Schlaepfer et al. (Exhibit 6);	800	18	

FOREIGN PATENT DOCUMENTS

SECRET DOCUMENTS														
		Document Number							Date	Country	Class	Subclass	Translation	
													Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Am2	Abel, T., et al., "Memory suppressor genes: inhibitory constraints on the storage of long-term memory," <i>Science</i> , 279:338-341 (1998) (Exhibit 7);
↓	Bach, M.E., et al., "Age-related defects in spatial memory are correlated with defects in the late phase of hippocampal long-term potentiation in vitro and are attenuated by drugs that enhance the cAMP signaling pathway," <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 96:5280-5285 (1999) (Exhibit 8);
↓	Buhot, M.-C., and Naili, S., "Changes in exploratory activity following stimulation of hippocampal 5-HT1A and 5-HT1B receptors in the rat," <i>Hippocampus</i> , 5:198-208 (1995) (Exhibit 9);
Am2	Cassel, J.-C., et al., "Fimbria-fornix versus selective hippocampal lesions in rats: effects on locomotor activity and spatial learning and memory," <i>Neurobiol. Learn. Mem.</i> , 69:22-45 (1998) (Exhibit 10);

EXAMINER

Anne-Maire Zalk

DATE CONSIDERED

4/25/05

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicants:

Isabelle Mansuy and
Eric R. Kandel

Serial No.:

10/091,714

Filed:

March 5, 2002

(Exhibit A)

Form PTO 1449		U.S. Department of Commerce Patent and Trademark Office			Atty. Docket No. 64481JPW/AJM/MML		Serial No. 10/091,714	
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)					Applicants: Isabelle Mansuy and Eric R. Kandel			
					Filing Date March 5, 2002		Group 1632	

U.S. PATENT DOCUMENTS												
Examiner Initial	Document Number							Date	Name	Class	Subclass	Filing Date if Appropriate

FOREIGN PATENT DOCUMENTS													
	Document Number							Date	Country	Class	Subclass	Translation	
												Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
Am2 ↓	Errington, M.L., et al., "Long-term potentiation in awake mutant mice," <i>Nature</i> , 387:666-667 (1997) (Exhibit 11); Gossen, M., et al., "Transcriptional activation by tetracyclines in mammalian cells," <i>Science</i> , 268:1766-1769 (1995) (Exhibit 12); Ikegami, S., et al., "A facilitatory effect on the induction of long-term potentiation in vivo by chronic administration of antisense oligodeoxy-nucleotides against catalytic subunits of calcineurin," <i>Brain Res. Mol. Brain Res.</i> , 41:183-191 (1996) (Exhibit 13); Ikegami, S., and Inokuehi, K. "Antisense DNA against calcineurin facilitates memory in contextual fear conditioning by lowering the threshold for hippocampal long-term potentiation induction," <i>Neuroscience</i> , 98:637-646 (2000) (Exhibit 14); Am2 Jerecic, J., et al., "Studies on conditional gene expression in the brain," <i>Ann. N.Y. Acad. Sci.</i> , 868:27-37 (1999) (Exhibit 15);

EXAMINER Anne-Marie Jalk	DATE CONSIDERED 4/25/05
------------------------------------	-----------------------------------

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form 819-1449		U.S. Department of Commerce Patent and Trademark Office			Atty. Docket No. 64481/JPW/AJM/MML		Serial No. 10/091,714	
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)					Applicants: Isabelle Mansuy and Eric R. Kandel			
					Filing Date March 5, 2002		Group 1632	

U.S. PATENT DOCUMENTS									
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate		

FOREIGN PATENT DOCUMENTS									
		Document Number	Date	Country	Class	Subclass	Translation		
							Yes	No	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
<p>Amz</p> <p>↓</p> <p>Amz</p>	<p>Lisman, J. "The CaM kinase II hypothesis for the storage of synaptic memory," <i>Trends Neurosci.</i>, 17:406-412 (1994) (Exhibit 16);</p> <p>Lu, Y.-F., et al. "Calcineurin inhibitors, FK506 and cyclosporin A, suppress the NMDA receptor-mediated potentials and LTP, but not depotentiation in the rat hippocampus" <i>Brain Res.</i>, 729:142-146 (1996) (Exhibit 17);</p> <p>Lu, Y.M., et al., "Calcineurin mediated long-term depression of GABAergic inhibition underlies the long-lasting increase in the excitability of CA1 hippocampal pyramidal cells induced by LTP," <i>Neuron</i>, 26:197-205 (2000) (Exhibit 18);</p> <p>Malleret, G., et al., "5-HT1B receptor knock-out mice exhibit increased exploratory activity and enhanced spatial memory performance in the Morris water maze," <i>J. Neurosci.</i>, 19:6157-6168 (1999) (Exhibit 19);</p> <p>Malleret, G., et al., "Inducible and reversible enhancement of learning, memory, and long-term potentiation by genetic inhibition of calcineurin," <i>Cell</i>, 104:675-686 (2001) (Exhibit 20);</p>

EXAMINER <i>Anne-Marie Falk</i>	DATE CONSIDERED <i>4/25/05</i>
------------------------------------	-----------------------------------

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449

U.S. Department of Commerce
Patent and Trademark Office

Atty. Docket No.

Serial No.

64481JPW/AJN/MML

10/091,714

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)Applicants: Isabelle Mansuy and
Eric R. Kandel

Filing Date

March 5, 2002

Group

1632

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate

FOREIGN PATENT DOCUMENTS

		Document Number							Date	Country	Class	Subclass	Translation	
													Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Ama	Parsons, J.N., et al., "Regulation of calcineurin phosphatase activity and interaction with the FK-506-FK-506 binding protein complex," <i>J. Biol. Chem.</i> , 269:19610-19616 (1994) (Exhibit 25);
↓	Perrino, B.A., et al., "Calcium regulation of calcineurin phosphatase activity by its B subunit and calmodulin. Role of the autoinhibitory domain," <i>J. Biol. Chem.</i> , 270:340-346 (1995) (Exhibit 26);
↓	Tang, Y.P., et al., "Genetic enhancement of learning and memory in mice," <i>Nature</i> , 407:63-69 (1999) (Exhibit 27);
↓	Tong, G., et al., "Synaptic desensitization of NMDA receptors by calcineurin," <i>Science</i> , 267:1510-1512 (1995) (Exhibit 28);
↓	Wang, J.-H. and Stelzer, A., "Inhibition of phosphatase 2B prevents expression of hippocampal long-term potentiation," <i>Neuroreport</i> , 5:2377-2380 (1994) (Exhibit 29);
Ama	Wang, J.-H., and Kelly, P.T., "The balance between postsynaptic Ca ²⁺ -dependent protein kinase and phosphatase activities controlling synaptic strength," <i>Learn. and Mem.</i> , 3:170-181 (1996) (Exhibit 30);

EXAMINER

Anne-Marie Jalk

DATE CONSIDERED

4/25/05

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office			Atty. Docket No. 64481/JPW/AJM/MML		Serial No. 10/091,714	
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)					Applicants: Isabelle Mansuy and Eric R. Kandel			
					Filing Date March 5, 2002		Group 1632	

U.S. PATENT DOCUMENTS										
Examiner Initial	Document Number					Date	Name	Class	Subclass	Filing Date if Appropriate

FOREIGN PATENT DOCUMENTS											
	Document Number					Date	Country	Class	Subclass	Translation	
										Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
Am2	Wang, J.H., and Kelly, P.T. "Postsynaptic calcineurin activity downregulates synaptic transmission by weakening intracellular Ca ²⁺ signaling mechanisms in hippocampal CAL neurons," <i>J. Neurosci.</i> , 17:4600-4611 (1997) (Exhibit 31) ;
↓	Watanababe, Y., et al., "Identification in the calcineurin A subunit of the domain that binds the regulatory B subunit," <i>J. Biol. Chem.</i> , 270:456-460 (1995) (Exhibit 32) ;
↓	Winder, D.G., et al., "Genetic and pharmacological evidence for a novel, intermediate phase of long-term potentiation suppressed by calcineurin," <i>Cell</i> , 92:25-37 (1998) (Exhibit 33) ; and
Am2	Zhuo, M., et al., "A selective role of calcineurin A α in synaptic depotentiation in hippocampus," <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 96:4650-4655 (1999) (Exhibit 34) .

EXAMINER <i>Anne-Marie Dalk</i>	DATE CONSIDERED <i>4/25/05</i>
------------------------------------	-----------------------------------

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.